

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 March 2004 (04.03.2004)

PCT

(10) International Publication Number
WO 2004/017747 A1

- (51) International Patent Classification⁷: **A23G 9/02**, 3/00, 9/04, 9/20
- (74) Agent: **WICKHAM, Michael**; The BOC Group plc, Chertsey Road, Windlesham, Surrey GU20 6HJ (GB).
- (21) International Application Number: **PCT/GB2003/003503**
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 12 August 2003 (12.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (30) Priority Data:
0219739.0 23 August 2002 (23.08.2002) GB
0310076.5 1 May 2003 (01.05.2003) GB
- (71) Applicant (*for all designated States except US*): **THE BOC GROUP PLC** [GB/GB]; Chertsey Road, Windlesham, Surrey GU20 6HJ (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **BROOKER, Brian**, Edward [GB/GB]; "Masters", Thames Street, Sonning, Reading, Berkshire RG4 6UR (GB). **TOMLINS, Richard, Ivor** [GB/GB]; The Old Police House, Bix, Henley-on-Thames, Oxon RG9 6DE (GB).
- Published:**
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



WO 2004/017747 A1

(54) Title: MANUFACTURE OF ICE CREAM

(57) **Abstract:** Particles of edible fat are precrystallised at edible fat and are blended with an aqueous ice cream precursor phase in the presence of at least one emulsifier to form a dispersion. The precrystallised particles of edible fat each contain a multiplicity of individual crystals. The resulting dispersion is gasified and frozen so as to form an ice cream. The precrystallisation is preferably performed cryogenically.